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#!/usr/local/bin/perl5

# [1] read the mdxChanges file into an associative array: mdxChanges.
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# 1_mkm3dRev "NONE"
# 1_mkmApprovedBy "MIKE MARTYN"
# 1_mkmApprovedDate "12/05/02"

=====Usage=====
if (($#ARGV + 1) < 3) {&usage; exit;}

$mdxChangesFile = $ARGV[0];
open (CHANGES, $mdxChangesFile) or die "can't open";
%mdxChanges = (); #first put empty into the hash

while (<CHANGES>) {
    @line = split / /,$_,2;
    #until ($line[1] =~ /^.*\"$/) {
    #    push @mynewline, $line[1];
    #    print "@mynewline\n";
    #    $line[1] = @mynewline;
    #
    #    #$newline = <CHANGES>; #chomp $newline; #print $newline;
    #    #$line[1] = $line[1] . " " . $newline;
    #    print $line[1];
    #}
    if ($line[1] =~ /^\"(.*)\"$/) {
        $mdxChanges{$line[0]} = $1;
        #$mdxChanges{$line[0]} = $line[1];
    }
}

print "CHANGES NEEDED \\\(mdxChanges array\\):\\n";
@keys = keys %mdxChanges;
foreach $key (keys %mdxChanges) {
    print $key, " = ", $mdxChanges{$key}, "\\n";
}
print "\\n\\nALL mkm INFOS AND VALUES IN MI FILE:\\n";
=====

# [3] open for read the MI file
$mifile = $ARGV[1];
open (MIFILE, $mifile) or die "can't open original mifile\\n";

# [4] open for write the newMI file
$newmifile = $mifile . ".new";
open (NEWMIFILE, ">$newmifile") or die "can't open newmifile\\n";
=====

# Read MI file
# [5] find all ASSP elements, gen an array of element number to element info
value
%assp_array = ();
while ($line = <MIFILE>) {
    if ($line =~ /^ASSP$/) {
        print NEWMIFILE $line;
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$element_number = <MIFILE>; print NEWMIFILE $element_number; chomp
$element_number;
$line = <MIFILE>;
until ($line =~ /^|\|\~$/) {
    $element_value = $line;
    print NEWMIFILE $line;
    $line = <MIFILE>;
}
print NEWMIFILE $line;
if ($element_value =~ /_mkm/) {
    $assp_array{$element_number} = $element_value;
}
#$assp_array{$element_number} = $element_value;
=====
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# [6] find all TEX elements, gen tex_element array for each TEX element
elsif ($line =~ /^TEX$/) {
    $change_needed = 0;
    push @tex_element, $line;
    # Get to the infos list
    for ($i=0;$i<6;$i++) {
        $line = <MIFILE>;
        push @tex_element, $line;
    }
    $count = $line; # The next $count lines are the info numbers that need to
be checked against assp_array
    # Capture the infos list; inspect each info against the assp_array
    for ($i=0;$i<$count;$i++) {
        $line = <MIFILE>;
        push @tex_element, $line;
        #compare $line to assp_array; if match, set $change_needed to 1, put new
text into $new_text
        #@keys = keys %assp_array;
        chomp $line;
        $info_num = $line;
        $new_text = "";
        #if one of the infos in the element infos matches one of the
assp_infos, a change is needed.
        foreach $key (keys %assp_array) {
            if ($info_num =~ /$key$/) {
                $newkey = $assp_array{$key}; chomp $newkey;
                $change_needed =1;
                #print "\n$key is: *$key* value is: *$mdxChanges{$newkey}*\n";
                $new_text = $mdxChanges{$newkey};
            }
        }
        #if ($assp_array{$line}) {print $assp_array{$line};}
    }
    $line = <MIFILE>;
    until ($line =~ /^|\|\~$/) {
        push @tex_element, $line;
        $line = <MIFILE>;
    }
    push @tex_element, $line;
    #TEX element is completely captured and change_needed is recorded
    if ($change_needed) { #==a change is possibly needed... have to check the
changes array
        # Write the new value to $tex_array-2
        $info = $assp_array{$info_num};
        chomp $info;
        if ($new_text) {
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        $new_text = "$new_text\n";
        print ("\n", $info, " needs change from *",
$tex_element[$#tex_element-2], "* to: *", $new_text,"*");
        $tex_element[$#tex_element-2]=$new_text;
    }
}
print NEWMIFILE @tex_element;
@tex_element = ();
}else{
    print NEWMIFILE $line;
}
}
close MIFILE;
close NEWMIFILE;
unlink $mdxChangesFile;

#@keys = keys %assp_array;
#foreach $key (sort keys %assp_array) {
#  print $key, '=', $assp_array{$key};
#
#=====
#=====
# -read TEX elements
#   -capture each TEX element's array of info_element_numbers
#   -check this info_element_numbers array against the assp_infos_array
#     to lookup the info_text
#   -check the info_text against the changes array.
#     -if there is a match, get the
#
# new tex value from the changes_array and write it
#   to the TEX element as newMI file is being written.
#
# -----
#   changes_array      |      assp_infos_array      |      TEX_element      |
tex_element_info_array  |
# -----
# 1_mkmRev X1          |  5 1_mkmRev          |  78                  |  3
|
# 1_mkm3dRev X2        |  6 HP_BORDER          |  2                  |  5
|
# 1_mkmRevDescr AS ISSUED |  7 DOCU_PARAM#Rev Value |  0                  |  7
|
# -----
# Each TEX element needs to be captured into a tex_element array
# Each info number of the tex_element needs to be captured into a
tex_element_infos array
# Use each tex_info_array element as an index into the assp_infos_array to
lookup the
#   text value of that info
# Check that info text value as an index into the associative changes_array
#   if there is a match (the TEX element needs to be rewritten)
#     take the text value from that element of the changes_array and
#       write it to the TEXT value of the TEX_element_array.
#     Write the adjusted TEX_element_array to the newMI file.
#   else

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#      write the tex_element to the newMI file.

#====SUBROUTINES=====
#====USAGE MESSAGE===
sub usage {
    $0 =~ s%.*%%;  
    print STDERR <<EOUsage;  
Usage: $0 <changes_file> <original MI file> uniqID  
  
EOUsage  
  #\033&v3SUsage: $0  
}
```